

Notice of Allowability

Application No.

10/066,065

Examiner

Hai C Pham

Applicant(s)

HENDRICKS ET AL.

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 03/12/04.
2. ☒ The allowed claim(s) is/are 1,3-7,9-12 and 16-21.
3. ☒ The drawings filed on 31 January 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: Claims 1, 3, 12, 16 and 19 are patentable over the prior art patents and printed publications because of the specific structure of the carriage of the printing system, which includes a body having a bearing structure to support the carriage for movement along a reference rail, a printhead carrier anchored to the carriage body and datumed relative to the carriage body, through a single region, both translationally and rotationally to plural orthogonal reference axes, and a printhead anchored to the printhead carrier, and aligned to the carriage bearing structure. The combined limitations are not taught by the art of record alone or in combination.

Claim 20 is patentable over the prior art patents and printed publications because of the specific method of aligning a printhead relative to a print-zone in a printing device by selecting surfaces of a carriage body to be carriage body datuming surfaces, selecting surfaces of a printhead carrier to be printhead carrier datuming surfaces, and orienting the carriage body datuming surfaces relative to the printhead carrier datuming surfaces whereby confronting contact between adjacent pairs of such datuming surfaces will be effective to produce translational and rotational datuming of the printhead carrier relative to the carriage body with respect to plural orthogonal reference axes. The combined limitations are not taught by the art of record alone or in combination.

Claim 21 is patentable over the prior art patents and printed publications because of the specific method of assembling a carriage for a printing device, the method comprising datuming the printhead carrier relative to the carriage body, datuming an ink-supply system relative to the carriage body in fluid communication with the printhead carrier, anchoring the printhead carrier to the ink-supply system with the carriage body intermediate the printhead carrier and the ink-supply system, mounting the printhead on the printhead carrier, and aligning the printhead relative to the carriage bearing structure. The combined limitations are not taught by the art of record alone or in combination.

Claims 4-7, 9-11 and 17-18 are allowed because they are directly or indirectly dependent from claims 3, 12 and 16 above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai C Pham whose telephone number is (571) 272-2260. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D Meier can be reached on (571) 272-2149. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hai Pham

HAI PHAM
PRIMARY EXAMINER

May 18, 2004